



PATENT ABSTRACTS OF JAPAN

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(54) RESIN COMPOSITION, TRANSMISSION
SCREEN ULTRAVIOLET-CURABLE RESIN
COMPOSITION AND CURED MATERIAL

(57) Abstract:

PURPOSE: To obtain the subject composition giving a cured product having high refractive index and excellent mold releasability and replicativity, etc., by using a specific urethane (meth)acrylate, a compound containing ethylenically unsaturated group other than the above acrylate and a photo-polymerization initiator as essential components.

CONSTITUTION: The objective composition is produced by compounding (A) an urethane (meth)acrylate produced by reacting (i) a diol compound having a

molecular weight of ≥ 500 , (ii) a compound of formula (R is H or methyl; (n) is 2-6; (m) is 0-5), (iii) an organic polyisocyanate compound and (iv) an OH- containing (meth)acrylate with (B) a compound containing ethylenically unsaturated group other than the component A [e.g. 2-hydroxyethyl (meth)acrylate] and (C) a photo-polymerization initiator (e.g. benzoin). The amount of the component B is preferably 50-1,000 pts.wt. based on 100 pts. wt. of the component A and that of the component C is preferably 0.1-10 pts. wt. based on 100 pts.wt. of A+B.

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